

Title (en)
NANOCARBON ELECTRON TRANSFER ACTION

Title (de)
NANOKOHLNSTOFFELEKTRONENÜBERTRAGUNGSAKTION

Title (fr)
ACTION DE TRANSFERT D'ÉLECTRONS DE NANOCARBONE

Publication
EP 3778476 A4 20220309 (EN)

Application
EP 19775049 A 20190329

Priority
• JP 2018065464 A 20180329
• JP 2019029534 A 20190221
• JP 2019014133 W 20190329

Abstract (en)
[origin: EP3778476A1] Provided is a means for promoting electron transfer between nanocarbon and other substances. An electron transfer accelerator for nanocarbon comprising a compound having an aromatic ring skeleton.

IPC 8 full level
C01B 32/168 (2017.01); **C01B 32/159** (2017.01); **C12M 1/40** (2006.01); **C12N 11/14** (2006.01); **C12Q 1/00** (2006.01); **G01N 27/30** (2006.01); **G01N 27/327** (2006.01)

CPC (source: EP US)
C01B 32/159 (2017.08 - EP US); **C01B 32/168** (2017.08 - EP US); **C12N 11/14** (2013.01 - EP); **C12Q 1/005** (2013.01 - EP US); **C12Q 1/32** (2013.01 - US); **C12Y 101/05** (2013.01 - US); **G01N 27/308** (2013.01 - US); **G01N 27/3272** (2013.01 - EP); **G01N 27/3278** (2013.01 - US); **B82Y 15/00** (2013.01 - US); **B82Y 40/00** (2013.01 - US); **C01B 2202/02** (2013.01 - US); **C01B 2202/22** (2013.01 - US)

Citation (search report)
• [X] JP 2015131734 A 20150723 - UNIV SHINSHU
• [X] WO 2018043050 A1 20180308 - AIST [JP]
• [X] US 2005208304 A1 20050922 - COLLIER CHARLES P [US], et al
• [X] BIAO KONG ET AL: "New faces of porous Prussian blue: interfacial assembly of integrated hetero-structures for sensing applications", CHEMICAL SOCIETY REVIEWS, vol. 44, no. 22, 1 January 2015 (2015-01-01), UK, pages 7997 - 8018, XP055389173, ISSN: 0306-0012, DOI: 10.1039/C5CS00397K
• [X] HOU CHUANTAO ET AL: "An integrated device of enzymatic biofuel cells and supercapacitor for both efficient electric energy conversion and storage", ELECTROCHIMICA ACTA, ELSEVIER, AMSTERDAM, NL, vol. 245, 22 May 2017 (2017-05-22), pages 303 - 308, XP085150730, ISSN: 0013-4686, DOI: 10.1016/J.ELECTACTA.2017.05.136
• See also references of WO 2019189808A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
EP 3778476 A1 20210217; **EP 3778476 A4 20220309**; CN 111954641 A 20201117; CN 111954641 B 20240312; JP 7398744 B2 20231215; JP WO2019189808 A1 20210318; US 11906461 B2 20240220; US 2021293742 A1 20210923; WO 2019189808 A1 20191003

DOCDB simple family (application)
EP 19775049 A 20190329; CN 201980023140 A 20190329; JP 2019014133 W 20190329; JP 2020511116 A 20190329; US 201917043175 A 20190329